
Central Data Exchange

Overview

Topics

- What is CDX?
- Benefits
- Who is using CDX?
- Building data flows for CDX

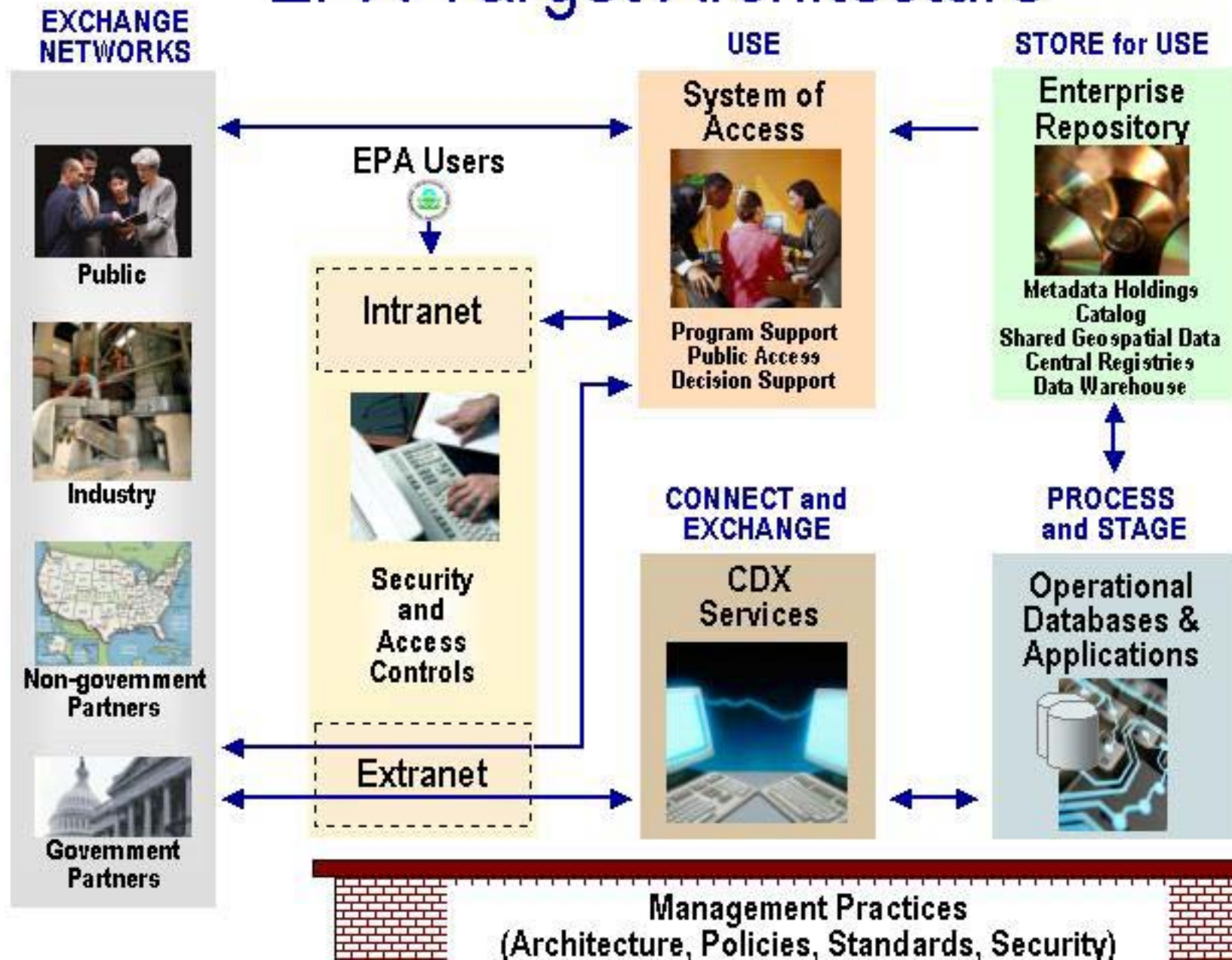
What is CDX?

- Portal through which environmental data enters the Agency
- EPA's Node on a State and tribal network for exchanging environmental data

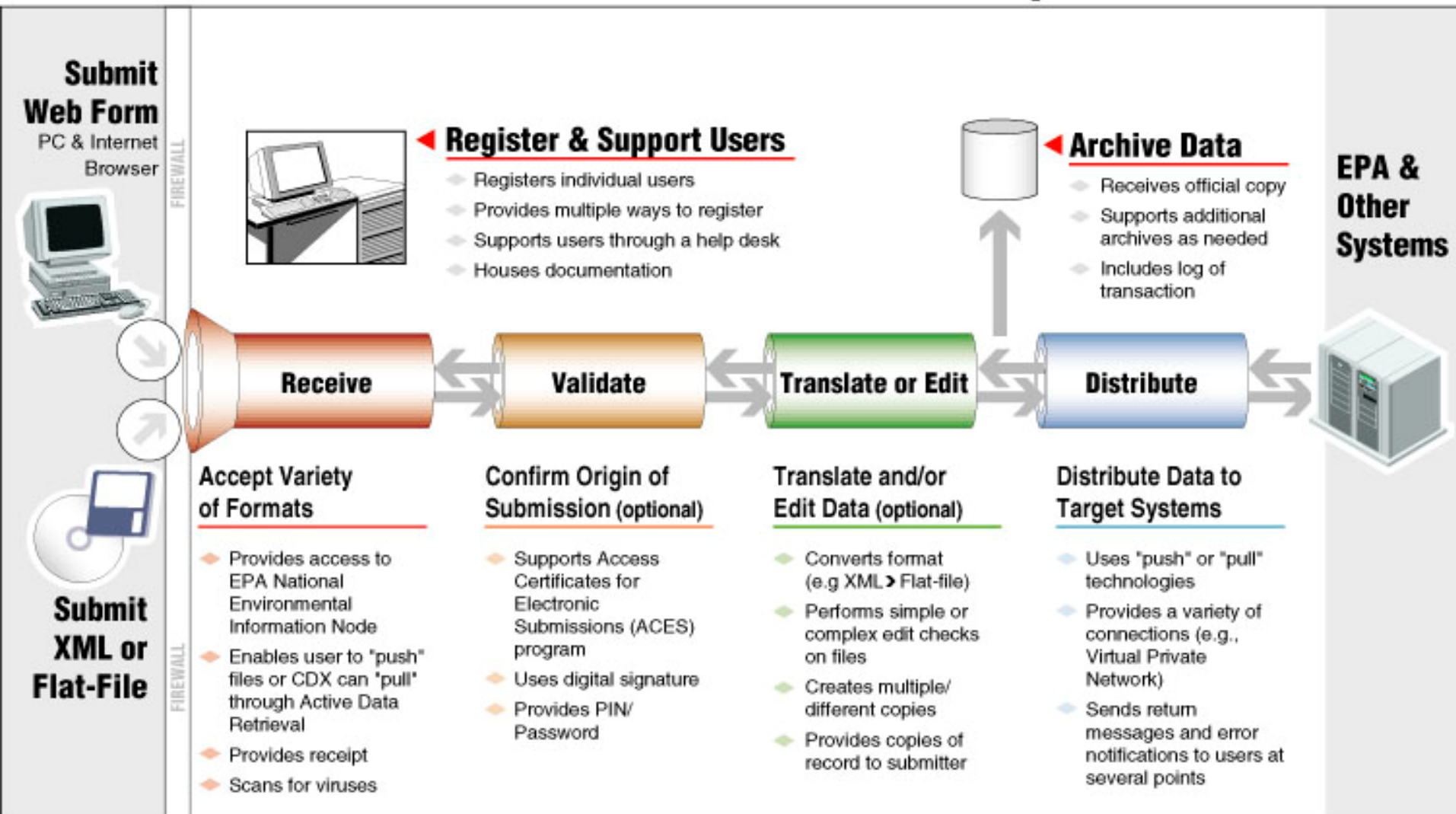
What Functions does CDX Provide?

- Receive
- Authenticate
- Translate
- Detect Errors
- Archive
- Distribute
- Support Customers

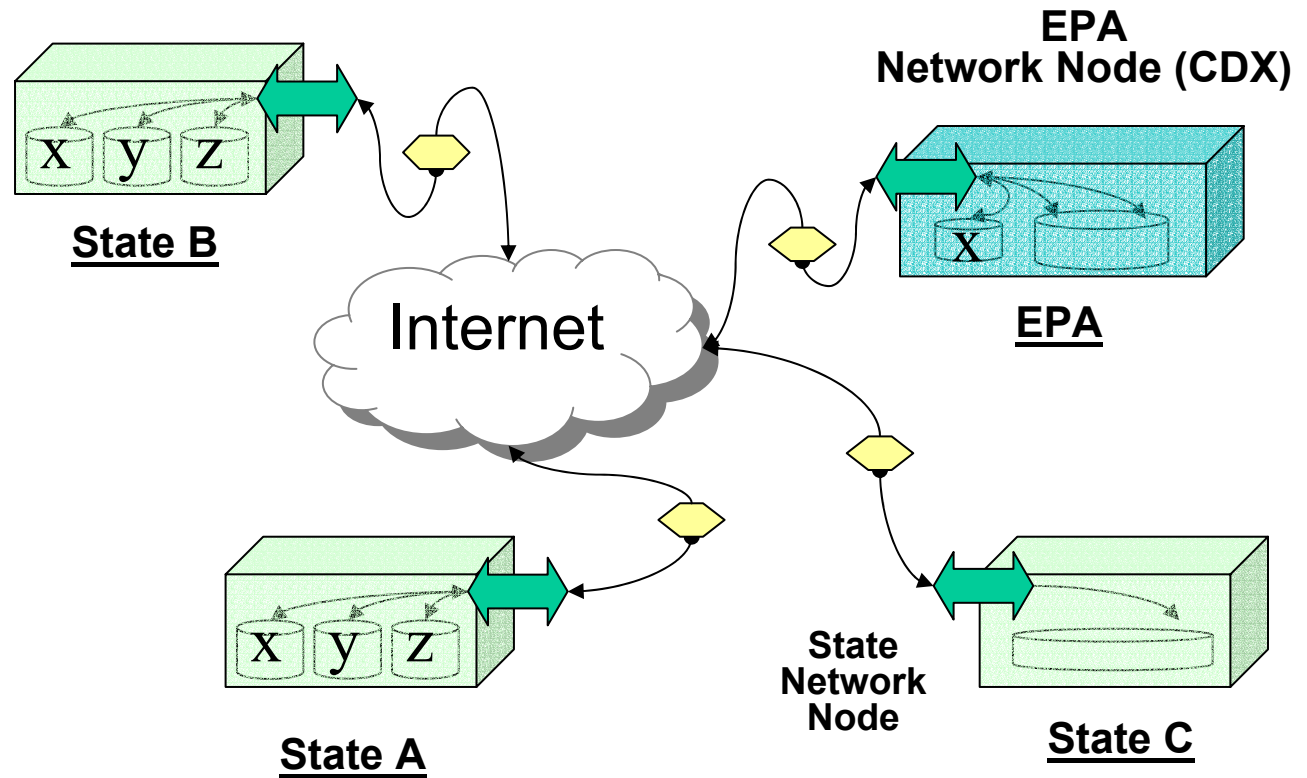
EPA Target Architecture



Overview of CDX Functions and Options



CDX and the Exchange Network



↔ **Agency Network Node**

◇ **Data Exchange Template**

User Benefits of CDX

- Responds to Industry/state/program desires for a common point of exchange with EPA
- Provides common registration process for industry
- Provides standard interface and formats for users
- Pre-populates existing CDX data
- Integrates receipt, security, translation, archiving and distribution functions
- Maintains centralized customer support

EPA Benefits of CDX

- Addresses mandates under GPEA
- Provides infrastructure service to programs
- Administers core EPA data exchange functions centrally
- Provides reduced costs by sharing resources
- Eliminates data entry tasks
- Promotes higher quality data
- Sets the legal framework for electronic submissions

CDX Security

- **CDX Infrastructure**
 - Secure Sockets Layer
 - Virtual Private Network
- **Submitter Identification**
 - User name and password for everyone
 - Digital Certificate
 - Pin and password
 - Print, sign, mail

CDX Data Flows

In Production

- AQS File Transfers
- Permit Compliance System (PCS/IDEF)
- Facility Registry System (FRS)
- National Emission Inventory (NEI)
- Toxics Release Inventory (TRI)
- Unregulated Contaminant Monitoring Rule (UCMR)
- Toxic Substances Control Act Test Submissions (TSCATS)
- RCRA Site ID Form
- RCRA State File Transfers

Under Development

- STorage and RETrieval System (STORET)
- AIR Quality System (AQS)
- Radionuclide NESHAPS
- Lead Notifications

Further Information on CDX and the Exchange Network

www.epa.gov/cdx

www.exchangenetwork.net

www.ecos.org